



m & m's artificial colouring

2015, April 16th
Ch. Monferrand



How to determine the dyes present in food ?

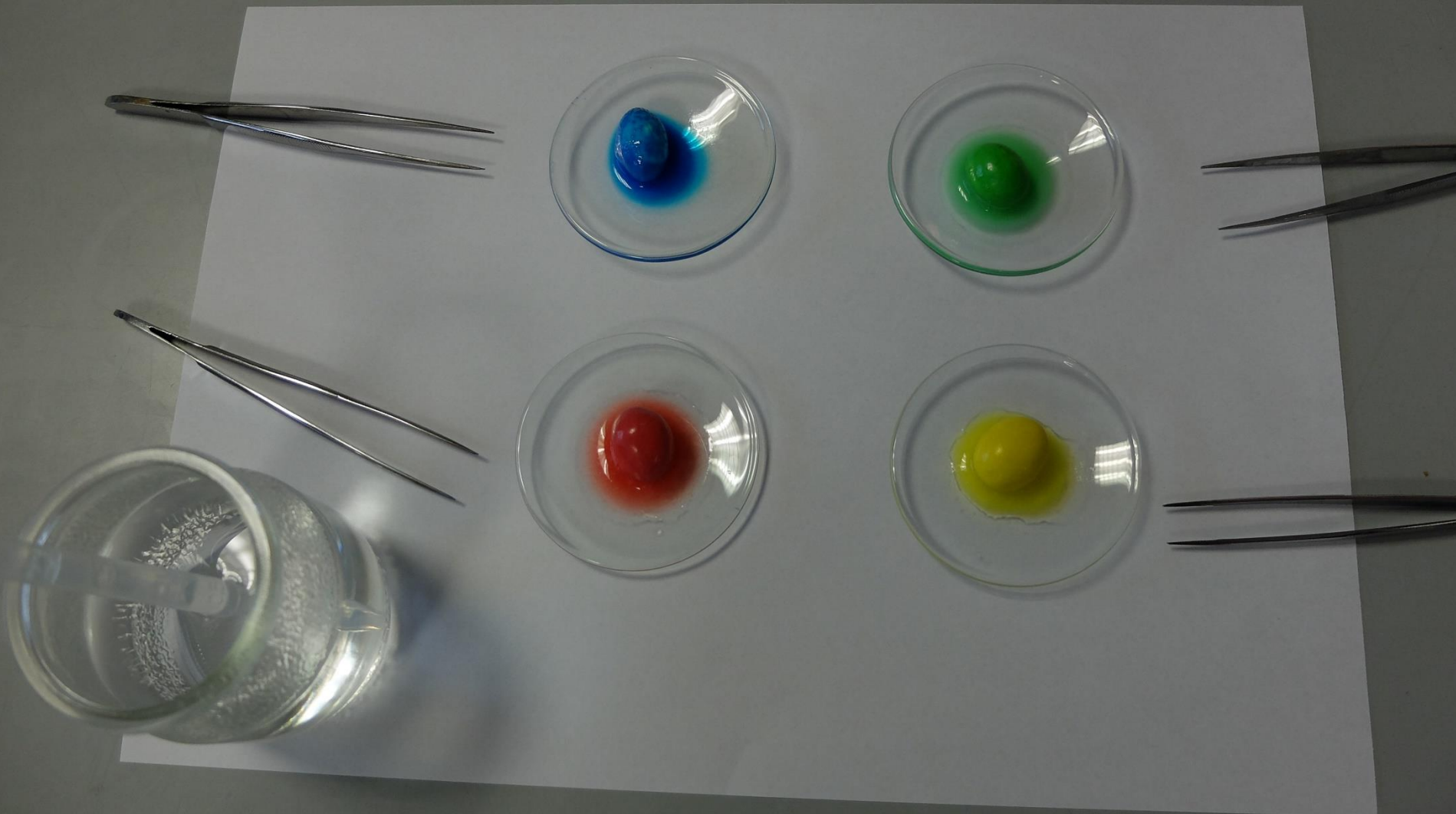
Nutrition Facts

	Amount/serving	%DV**	Amount/serving	%DV**
Serving Size 1 Pack	Total Fat 13g	20%	Total Carb. 30g	10%
Calories 250	Sat. Fat 5g	25%	Fiber 2g	7%
Fat Calories 120	Cholest. 5mg	1%	Sugars 25g	
	Sodium 25mg	1%	Protein 5g	
** Percent Daily Values (DV) are based on a 2,000 calorie diet.	Vitamin A* 2%		Vitamin C* 4%	Iron 2%
	Thiamine 2%		Riboflavin 4%	Niacin 8%
	*Contains less than 2 percent of the Daily Value of these nutrients.			

INGREDIENTS: MILK CHOCOLATE (SUGAR, CHOCOLATE, MILK, COCOA BUTTER, LACTOSE, PEANUTS, SOY LECITHIN, SALT, ARTIFICIAL FLAVORS), SUGAR, PEANUTS, CORNSTARCH, LESS THAN 1% - CORN SYRUP, SOY ACACIA, COLORING (INCLUDES RED 40 LAKE, BLUE 2 LAKE, BLUE 1 LAKE, YELLOW 5, YELLOW 6, RED 40, BLUE 1), DEXTRIN.



**How to be
sure it's this
one ?**

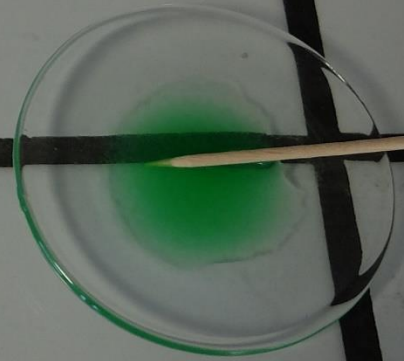
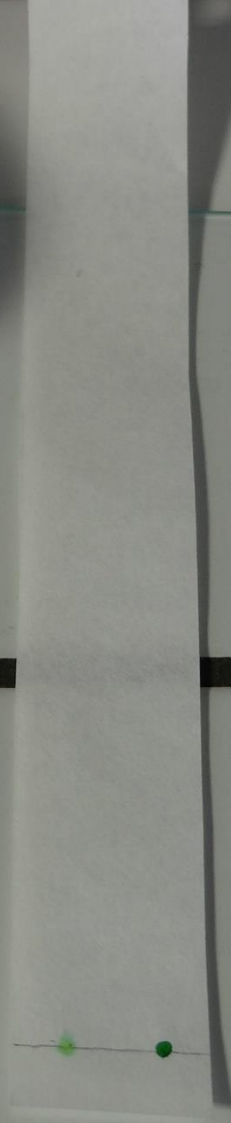


1) Extract the colouring

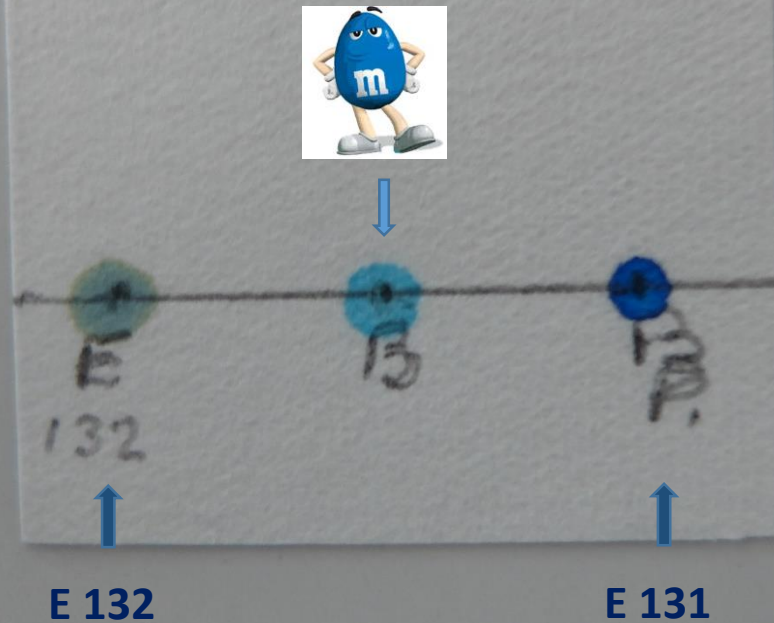


2) With a thoothpick, deposit a little drop of the candy extract on the middle of the line drawn on the paper

3) Dry with the airdryer and repeat the operation until you see clearly the colour



4) Repeat the previous complete operation on the sides of the line with the 2 control dyes

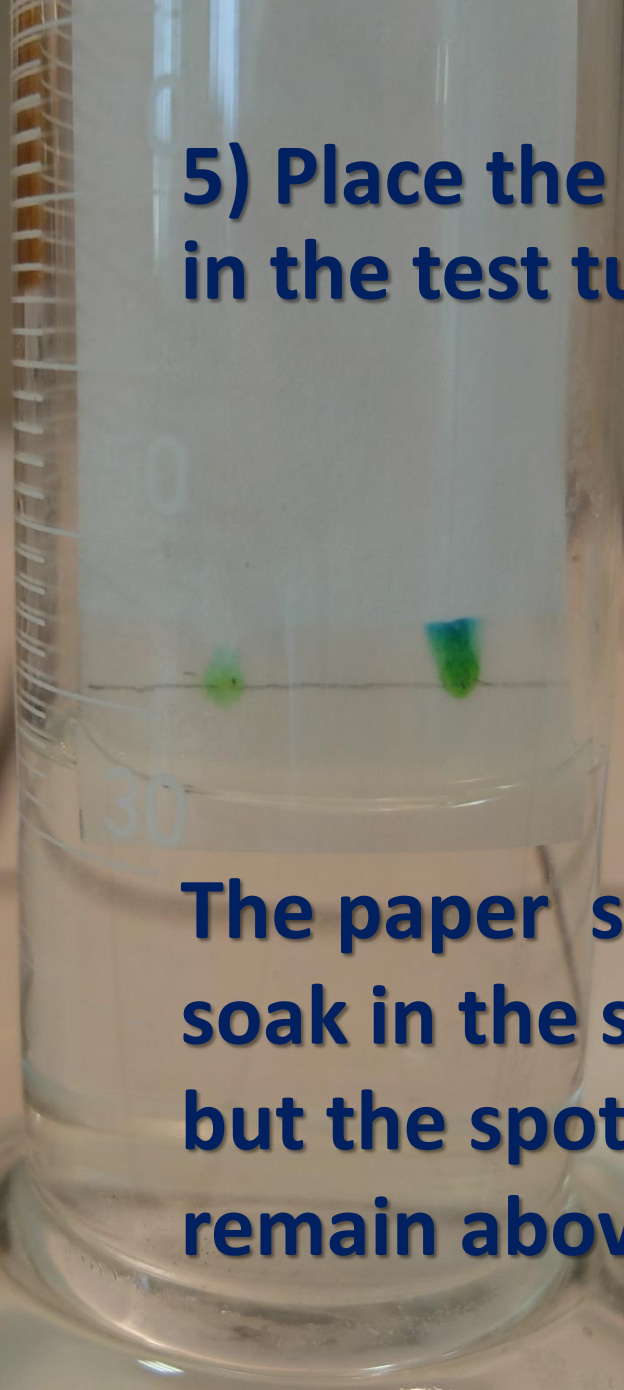


5) Place the paper in the test tube

The paper should soak in the solvent, but the spots must remain above it

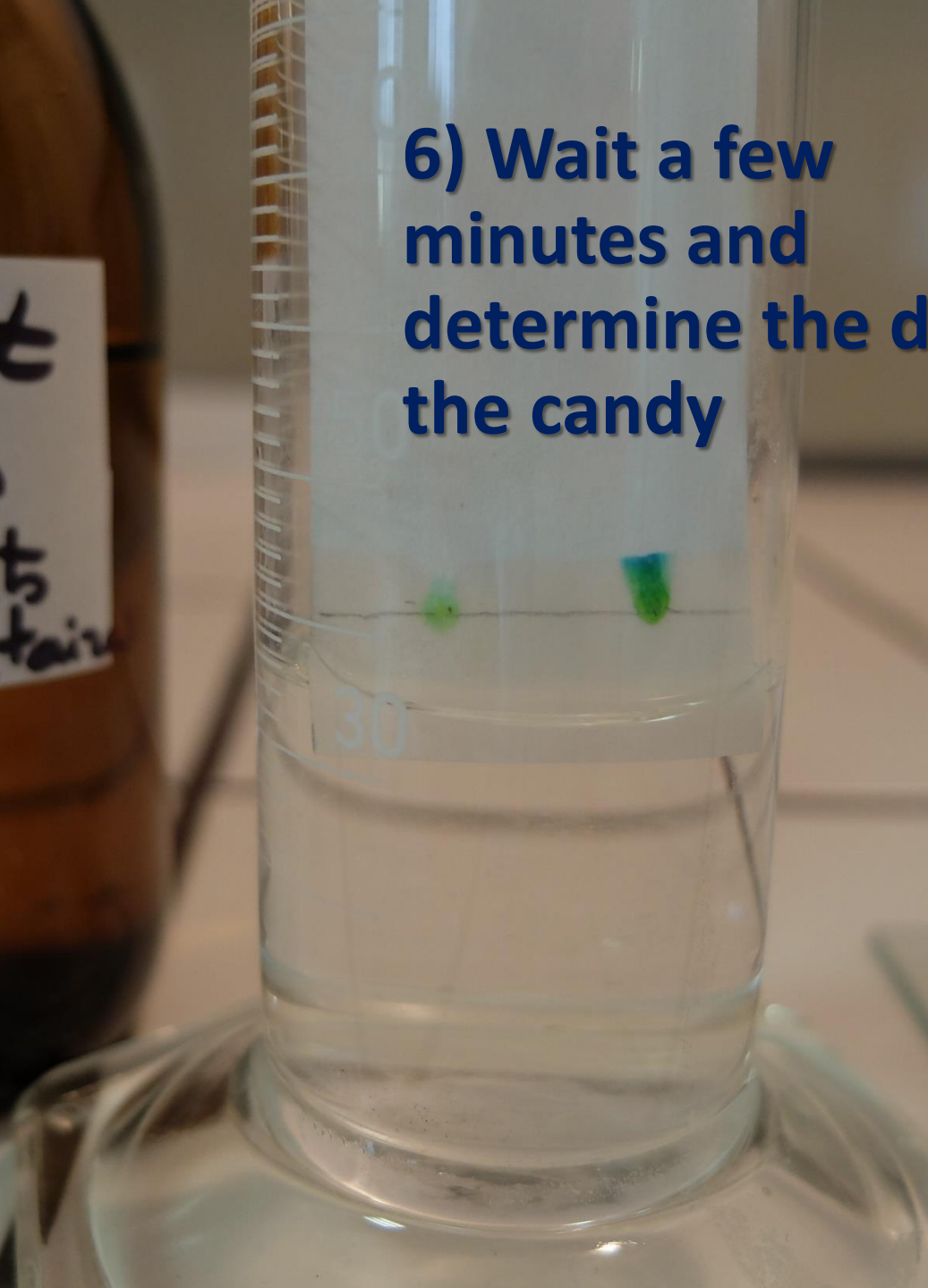


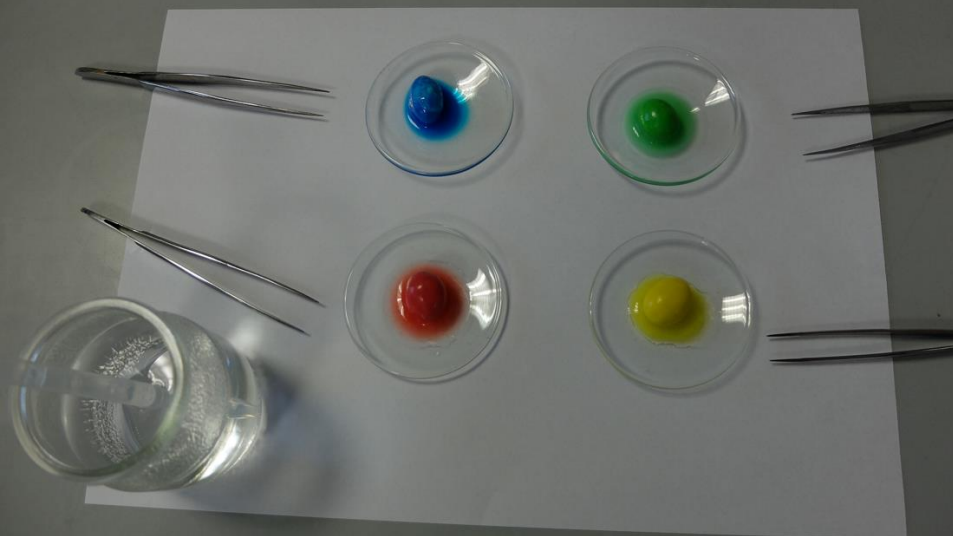
**Eluant
chromato
des colorants
Alimentaires**



Eluant
chromato
des colorants
Alimentaires

6) Wait a few minutes and determine the dye in the candy





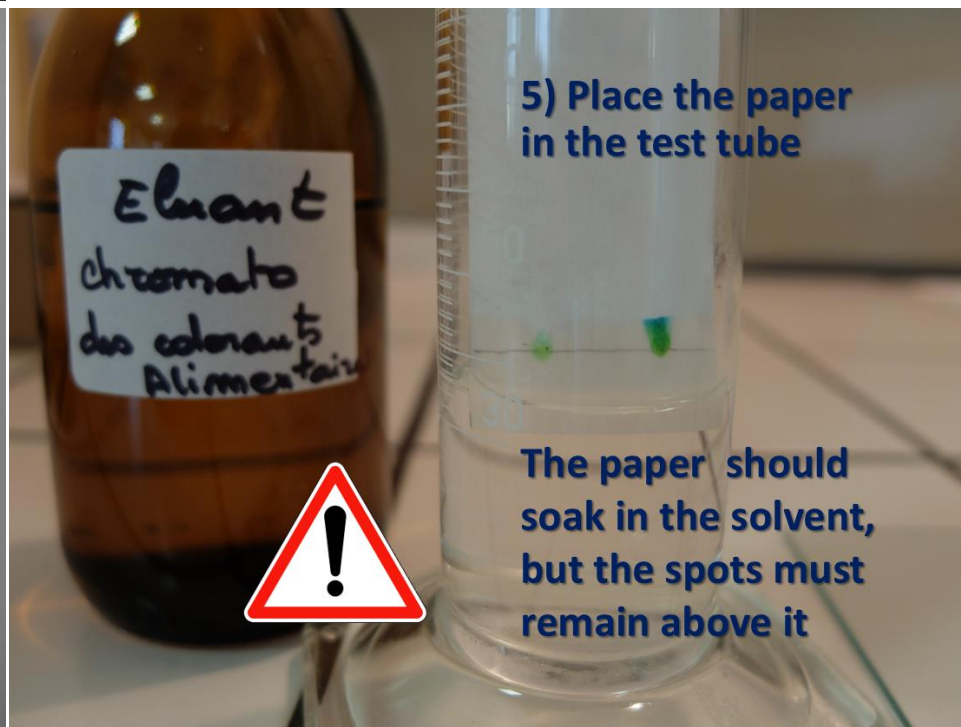
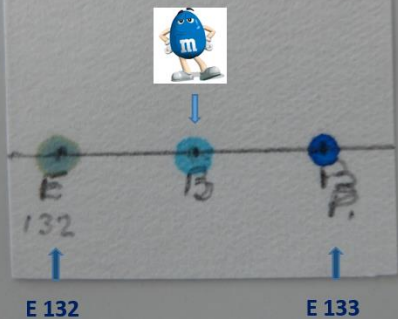
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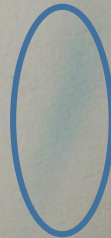
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Result :

E 131



E 132



BB B T
132